



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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January 10, 1996

TO: Minerals File

FROM: Tony Gallegos, Reclamation Engineer *aa*

RE: Site Inspection, Ziegler Chemical and Mineral Corporation, Ziegler Gilsonite Mines,
M/047/013, Uintah County, Utah

Date of Inspection: December 11, 1995
Time of Inspection: 1250 - 1635
Conditions: Partly cloudy, cool
Participants: Norm Haslem, Bud Covington, Ziegler Chemical; Tony Gallegos, DOGM

Purpose of Inspection: To examine the proposed new mine site and verify the status of various mine sites included in the permit

The inspection began with a brief meeting in the main offices of Ziegler. Mr. Haslem helped me review a summary listing of all Ziegler sites and verify their current status. A copy of the updated listing will be attached to this memo.

According to Mr. Haslem: Site LB 3 is active. Site LB 1 is an old abandoned site on patented land. Near the LB area, Ziegler has regraded an old garbage dump and seeded it. Ziegler is currently constructing an irrigation system to divert water pumped from the mines to one pond for pH treatment. The Division of Water Quality is requiring this, with Shelly Chamberlain as the contact. It seems the water has a pH of around 9.2 and Ziegler is supposed to reduce the pH by adding acid. The ditches that have historically been used for diverting mine water show some white precipitate in them, possibly alkali. The water in the treatment pond will then be allowed to percolate back into the ground/mines. After this meeting we then drove to the various sites. We walked around at some sites and examined other sites from the vehicle.

The first area visited was the new Z1 site. This site is in between two small knolls. There is a stake which would be the approximate location of the first shaft. Photographs were taken of this area looking to the southeast with head frames in the background. The head frames visible from closest to furthest are the I-5, the I-4, and the top of the I-3, which is barely visible. Photographs were also taken looking to the northwest at what will be the number 2 shaft location for this mine. This photograph is recognized by a power plant in the background.

The I-3 mine has encountered lots of rock in the vein. The rock is generally a massive piece of isolated rock. This is on the side of the I-3 vein, towards the I-2 site.



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We drove around several of the mine sites, in particular, through the LE-1 or middle site, which is still active. A photograph was taken of this area with the significant features being a head frame with a fence around it and a shaft site with warning signs.

We visited the LE-7 site which has been reclaimed approximately two years ago. Photographs were taken of this area. An identifying feature in the photo would be a gate on a road in the lower left portion. Mr. Covington had to leave after visiting this site.

At the Cottonwood #1 site, there is a concrete cap over the shaft. This is what Ziegler has referred to as a coffin cap. Photographs were taken looking south towards this area. The photo should show that the area has been regraded. There will also be a noticeable difference between the natural vegetation and the reclamation vegetation. The Cottonwood C-2 site is northwest of the C-1 site and visible from here. No shaft was sunk at the C-2 site. The C-2 site was graded and a head frame erected, but nothing else was constructed. These surface features were removed and the site regraded and reseeded. The C-2 area is generally flat and rolling. Photographs were taken to document this area. Distinguishing features in the photo would include the sunset in the background. A closeup photo was taken of the concrete coffin cap at the C-1 shaft site. At the C-1 site was a small area covered with a thin layer of gilsonite. Norm asked if this was a problem, but since vegetation is coming through, I don't believe additional reclamation work would be warranted for this small spot.

The next area visited was the C-3 site. This site has also been reclaimed. Disturbance at this site included a complete shaft head frame setup and the usual facilities. A shaft was sunk to approximately 250 feet. The area was regraded and reseeded about one year ago. The shaft was backfilled. Reclamation at this site was done at the same time as the C-1 and C-2 sites. The access roads to the site were reclaimed. There was one main road which then forked and met at the mine site, making sort of a loop. The regrading work is generally good. The terrain is rolling to flat. At this time there is a distinct difference between the vegetation on the reseeded areas compared to the undisturbed areas. The revegetation at this site will need more time before the site can be released.

jb
attachment: updated summary listing of sites
cc: Norm Haslem, Ziegler
Bud Covington, Ziegler Consultant
M047013.ins

Will Stokes/SITLA

GILSONITE MINE SITES - ZIEGLER CHEMICAL & MINERAL COMPANY

M/047/013

last revision 1/12/96

<i>Mine site (1)</i>	<i>acre</i>	<i>land owner</i>	<i>DOGM file #</i>	<i>status</i>	<i>location</i>
I-3	1.38		M/047/013	active	SE/4 NE/4 sec 16 T9S, R24E
I-4	1.41		M/047/013	active	SW/4 NE/4 sec 16 T9S, R24E
I-5	1.20	SITLA ML851-A	M/047/013	active	NW/4 NE/4 sec 16 T9S, R24E
LB-1		patent		vent shaft only	
LB-3	1.14		M/047/013	active	SW/4 SE/4 sec 16 T9S, R24E
LB-8	1.00		M/047/013	active; escapeway for LB-3	SE/4 SE/4 sec 16 T9S, R24E
LB-11	1.01		M/047/013	pumping water, suspended	NE/4 NW/4 sec 22 T9S, R24E
LB-12	1.51		M/047/013	pumping water, suspended	NE/4 NW/4 sec 22 T9S, R24E
LB-8A	1.00	SITLA	M/047/013	stockpile area, active	SW/4 SW/4 sec 15 T9S, R24E
LE-1 Middle	1.10		M/047/013	active	SE/4 SE/4 sec 30 T9S, R24E
LE-7				reclaimed ~1993	
C-1	1.24	SITLA ML20781	M/047/013	shaft sunk & backfilled, site reclaimed unreleased, area includes C-2	NE/4 SE/4 sec 29 T10S, R21E
C-2		SITLA ML20781	M/047/013	no shaft sunk, surface disturbance only, reclaimed & unreleased; included in C-1 area	NE/4 SE/4 sec 29 T10S, R21E
C-3	1.50	SITLA ML19868, ML20779	M/047/013	site reclaimed 1995?	SW/4 NW/4 sec 29 SE/4 NE/W sec 30 T10S, R21E
CB-1	3.30	BLM U-0122693	M/047/013	active	SW/4 SE/4 sec 33 T8S, R21E

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<i>Mine site (1)</i>	<i>acre</i>	<i>land owner</i>	<i>DOGM file #</i>	<i>status</i>	<i>location</i>
Neal-1	4.48	SITLA ML46896 <i>Cottonwood 826 to 47526</i>	S/047/063	active	SW/4 NW/4 sec 32 T11S, R24E
Z-1	4.55	SITLA ML19868	M/047/013	proposed for startup in 1996	NW/4 NW/4 sec 16 T9S, R24E

NOTES: (1) I = Independent, LB = Little Bonanza, LE = Little Emma, C = Cottonwood, CB = Cowboy

ziegler1.tab

LE-1 (MIDDLE) SITE



LE-7 SITE
RECLAIMED ~ 2 YRS AGO



C-1 SITE

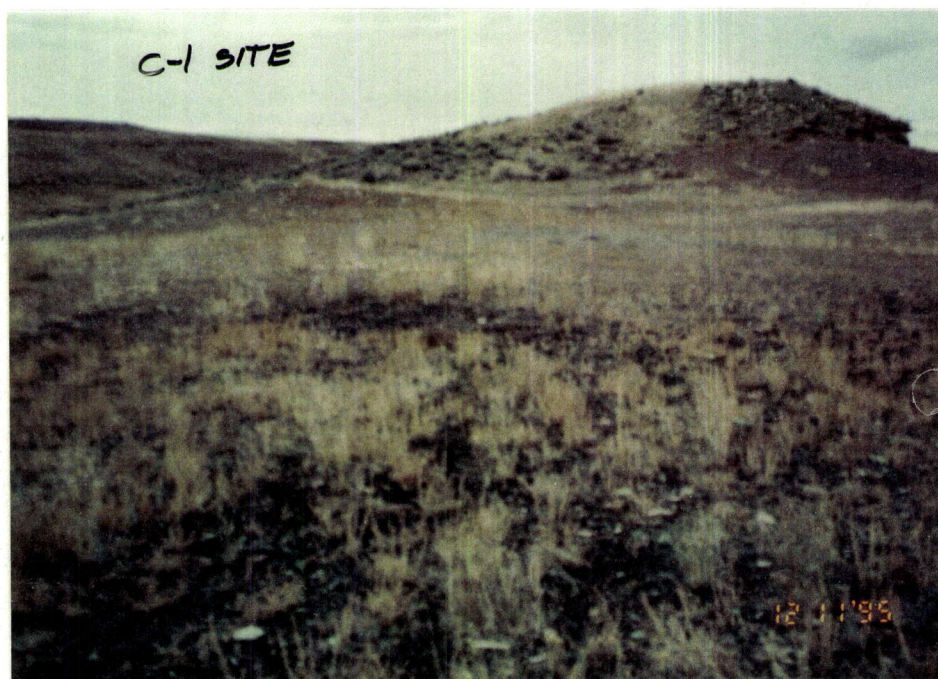


C-1 SITE



W/047/013

M/047/013



M/047/013

